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## Listing of the Claims:

memory.

(Originally A method for processing a collection of tree data structures in a computer readable database, the method comprising:

identifying a set of trees in the collection of tree data structures, each free in the set of trees having a same structure;

> forming a pattern having the same structure as each tree in the set of trees, and processing the pattern.

- (Original) The method of Claim 1 wherein the pattern is processed in lieu of processing each tree in the self of trees.
- (Original) The method of Claim 1 wherein processing the pattern comprises applying a query tree to the pattern.
- (Criginal) The method of Claim 1 wherein processing the pattern comprises applying an extend operation to the pattern.
- (Ungreal) The method of Claim I wherein processing the pattern comprises applying an intersect operation to the pattern.
- 6. (Original) The method of Claim 1 wherein each tree in the set of trees includes a leaf mode having a value, the method further comprising:

storing the patient in a computer-readable memory, and storing the leaf node of each tree in the set of trees in a computer-readable

- Original. The method of Chain 6 wherein the pattern is stored in lieu of storms the same structure of each tree in the set of trees.
- (Original) A method for processing a collection of tree data structures in a computer-readable database, the method comprising:

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partitioning the collection of tree data structures into disjoint sets of trees, each set of trees comprising trees of a same structure;

fortung a set of patterns, each pattern corresponding to one of the sets of trees, and each pattern usiving the same substance as its corresponding set of trees; and processing the set of patterns.

- 9. (Original) The method of Claim 8 wherein the set of patterns are processed in lieu of processing each tree in each of the sets of trees.
- 10: (Original) The thethod of Claim 8 wherein processing the set of patterns comprises applying a query tree to cash pattern in the set of patterns.
- 11. (Criesnal) The method of Claim 8 wherein each tree in each of the sets of trees includes a leaf node having a value, the method further comprising:

storing the set of patterns in a computer-readable memory; and storing the leaf-house of each tree in each of the sets of trees in a computer-readable memory.

- 12. (Ongmal) The method of Claim 11 wherein the set of patterns are stored in her of storing a structure of each free in each of the sets of trees.
- 13. (Original) The method of Claim 8 wherein processing the set of patterns processes the set of patterns with distributed processors, each distributed processor processing one or more of the patterns in the set of patterns.
- 14. (Chiganal) The inclined of Claim 8 wherein processing the pattern comprises applying an extend operation to each pattern in the set of patterns.
- 15 (Original) The method of Claim 8 wherein processing the pattern comprises applying an intersect operation to each pattern in the set of patterns.

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lo. (Original) A system for processing a collection of tree data structures, the system compassing

a database comprising the collection of tree data substances

a processing component communicatively connected to the database component, the processing component programmed to perform actions comprising:

ide styling by econimumicating with the database component, a set of trees in the collection of tree data structures, each tree in the set of trees having a same structure;

forming a pattern having the same structure as each tree in the set of nees,

processing the pattern.

- 17. (Crigmat) The system of Claim 16 wherein the processing components processes the pattern in hear of processing each tree in the set of trees.
- 18 (Original) The system of Claim 16 further comprising:

  an imput companient communicatively connected to the processing component,

  wherein the processing component is programmed to perform actions further

  comprising

receiving intomation from the input component, and
generating a query tree based upon the received information,
wherein processing the pattern by the processing component comprises applying
the query tree to the pattern

19: (Criginal) The system of Claim 16 further comprising:
a memory component communicatively connected to the processing component,

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wherein each five in the set of tiers includes a leaf node, and wherein the processing component asprogrammed to perform actions further comprising:

stering the pattern with the memory component; and

sisting the learning of each tree in the set of trees with the memory component.

- 20th (Carpetall) The system of Claim 19 wherein the pattern is stored in his of storing the same structure of each tree in the set of trees.
- 21. (Original) The system of Claim 16 wherein processing the pattern
  comprises applying arrest encloseration to the pattern.
- 22. (Original) The system of Claim 16 wherein processing the pattern.

  comprises applying an intersect operation to the pattern.
- 23. (Original) A system for processing a collection of tree data structures, the system comprising

avdatabase comprising the collection of tree datasase comprising the collection of tree data structures.

a processing component communicatively connected to the database component, the processing component programmed to perform actions comprising:

partitioning the coffection of tree data structures in the database into
disjoint sets of trees, each set of trees comprising trees having a
same structure, and the partitioning being assisted by

forming a set of patterns, each pattern corresponding to one of the sets of trees; and each pattern having the same structure as its

processing the set of patterns.

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comprising:

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- 24. (Original) The system of Claim 23 wherein the processing component processes the set of patterns in their of passessing each tree in each of the sets of trees.
  - 25: (Gregnish). The system of Claim 23 further comprising:

    an unput component communicatively connected to the processing component,

    wherein the processing component is programmed to perform actions further
- receiving inferious from the input component, and
  generating a query tree based upon the received information,
  wherein processing the set of patterns comprises applying the query tree to each
  pattern to the set of patterns.
- 26 (Griginal) The system of Claim 23 further comprising:

  a memory component communicatively connected to the processing component,

  wherein each tree in each of the sets of trees includes a leaf node, and wherein the

  processing component is programmed to perform across further comprising.
- storing the set of parterns with the memory component, and
  storing the leaf mode of each tree in each of the sets of trees with the memory
  component.
- 27 (Crigmal) The system of Claim 26 wherein the set of patterns are stored in lieu of storing a structure of each tree in each of the sets of trees.
- 28. (Criginal) The system of Claim 23 wherein the processing component comprises multiple distributed processor processing one or more of the patterns in the set of patterns.
- 29. (Conginal) The system of Claim 23 wherein processing the pattern comprises applying an extend operation to each pattern in the set of patterns.

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30 (Ongust) The system of Claim 23 wherein processing the pattern

comprises applying an unexpect operation to each pattern in the set of patterns.

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